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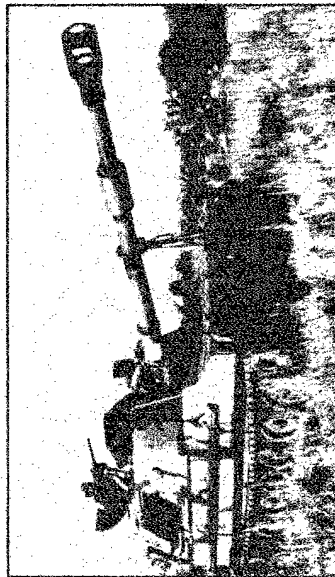
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ARMY SAFETY REPORT

FY 86

Volume II
FIELD ARTILLERY BRANCH BATTALIONS



Dec 86.01/6

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PREFACE

Two Volumes. This report is the second of two volumes. Volume I is under separate cover and provides an overview of FY 86 Army-wide accident experience. It concentrates on the major types of accidents, problem areas, cause factors, and countermeasures.

Purpose. This branch report is one of seven under separate covers. These reports present the FY 86 accident experience of active Army battalions in the following branches: Aviation, Field Artillery, Infantry, Signal, Armor, Air Defense Artillery, and Transportation. It is intended that Branch Chiefs/School Commandants use this information to produce soldiers who are more aware of and prepared for accident-causing problems they will encounter after joining their units. This information will also permit field commanders to share the accident experience of other commanders having similar missions, personnel, and equipment. It is hoped that commanders will implement corrective actions before resources are lost to accidents from the same causes.

Data Notes. In the future, branch reports will be expanded to include Army National Guard and Reserve battalions, more branches, and more information specifically tailored to the accident prevention needs of each branch.

The FY 86 data included are based on reports of ground (DA Form 285) and aviation (DA Form 2397) accidents occurring during FY 86 and recorded in the Army Safety Management Information System (ASMIS) as of 7 January 1987.

Within this report is a listing of active Army battalions identified with the branch. It is these battalions whose accident experience forms the data for this report. The applicable list of battalions was provided in November 1986 to representatives of each branch, except Aviation, for verification. No verified lists had been received as of 22 January 1987.

EXECUTIVE SUMMARY

During the period FY 83 through FY 86, there was an increasing trend in Class A-C accidents in Field Artillery Branch Battalions. Personnel injury accidents, privately owned vehicle and Army motor vehicle accidents accounted for nearly all (90%) of the FY 86 accidents. On-duty personnel injuries occurred primarily during maintenance activities such as installing equipment. Off-duty personnel injuries occurred primarily during sports activities such as basketball and softball. Privately owned vehicle accidents occurred primarily during operation of autos/sedans and motorcycles/mopeds. Army motor vehicle accidents occurred primarily during operation of 2 1/2, 8, and 10-ton trucks.

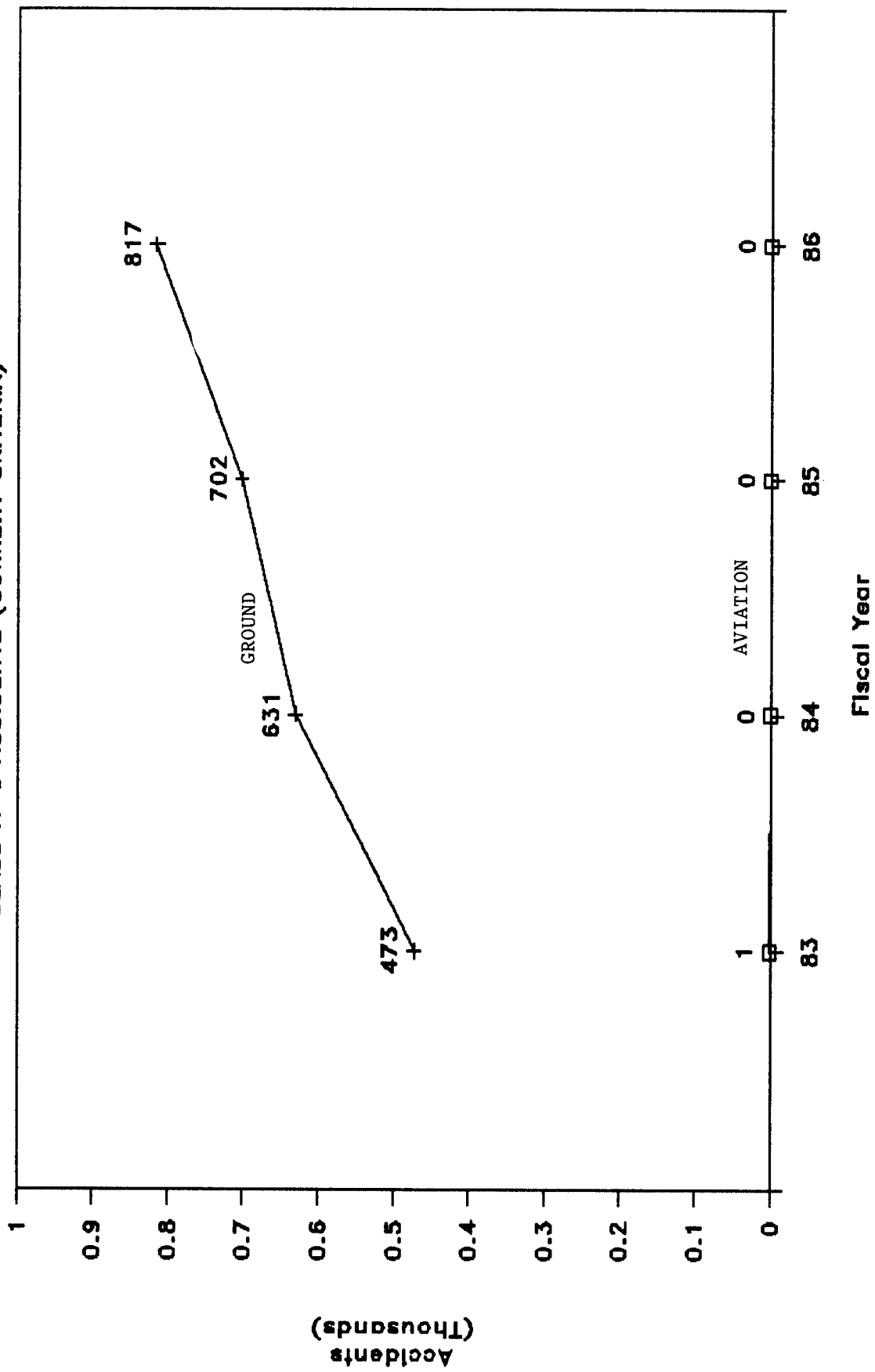
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FIELD ARTILLERY BRANCH BATTALIONS

CLASS A-C ACCIDENTS (CURRENT CRITERIA)



Data as of 7 Jan 87.

Ground accidents have risen 16% from FY 85 to FY 86.

FIELD ARTILLERY BRANCH BATTALIONS
CLASS A-C ACCIDENTS (CURRENT CRITERIA)

TYPES OF ACCIDENTS	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
<u>Ground</u>								
Personnel Injury	254	54	341	53	368	52	467	56
Privately Owned Vehicles	104	22	124	20	140	20	146	18
Army Motor Vehicles	74	15	111	18	118	17	127	16
Army Combat Vehicles	31	7	42	7	50	7	58	7
Fire	5	1	6	1	18	3	16	2
Explosive	4	<1	3	<1	2	<1	1	<1
Other Property Damage	0	0	1	<1	1	<1	2	<1
Marine	1	<1	0	0	0	0	0	0
Other Army Vehicle	0	0	1	<1	2	<1	0	0
Radiation	0	0	2	<1	3	<1	0	0
Total	473	100	631	100	702	100	817	100
<u>Aviation</u>								
Rotary Wing	1		0		0		0	
Fixed Wing	0		0		0		0	
Total	1		0		0		0	

Data as of 7 Jan 87.

The trend in Field Artillery Battalion ground accidents is increasing. Personnel injury, privately owned vehicle, Army motor vehicle, Army combat vehicle, and fire accidents are the major contributors to this increase.

Over half of ground accidents were personnel injury. Personnel injury has increased 27% over FY 85 and a 84% overall increase since FY 83.

Explosive accidents were the only type to show a decreasing trend, but were too small in number to affect the overall trend.

FIELD ARTILLERY BRANCH BATTALIONS
ACTIVITIES OF ON-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ACTIVITY OF ON-DUTY INJURED PERSON	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Maintenance/Repair/Serviceing	33	19	37	16	31	13	60	20
Combat Soldiering	31	17	50	21	49	20	42	13
Sports	19	11	17	7	25	10	42	13
Human Locomotion	11	6	14	6	13	5	33	11
Handling Material/Passengers	20	11	27	11	26	10	32	10
Weapons Handling	9	5	21	9	21	8	20	7
Passenger	9	5	17	7	21	8	20	7
Handling Vehicle/Vessel	5	3	8	3	18	7	18	6
Physical Training	18	10	20	9	7	3	10	3
Soldiering	10	6	6	3	8	3	9	3
Food/Drink Preparation	2	1	6	3	5	2	6	2
Personal Hygiene	2	1	2	1	5	2	6	2
Bystanding/Spectating	1	<1	0	0	0	0	3	1
Horseplay	0	0	0	0	3	1	2	1
Communications	2	1	1	<1	4	2	1	<1
Security/Law Enforcement	1	<1	2	1	1	<1	1	<1
Supervisory	3	2	5	2	5	2	1	<1
Fire Department	0	0	0	0	1	<1	0	0
Operating Vehicle/Vessel	0	0	0	0	1	<1	0	0
Janitorial/Housekeeping	2	1	3	1	2	1	0	0
Office	0	0	0	0	2	1	0	0
Total	178	100	236	100	248	100	306	100

Data as of 7 Jan 87.

Within personnel injury accidents, maintenance/repair/servicing has increased 94% over FY 85 and is the largest single cause of on-duty personnel injuries.

Activities contributing to the major portion of the overall increasing trend in on-duty personnel injuries over the four-year period were maintenance/repair/servicing, combat soldiering, and human locomotion.

FIELD ARTILLERY BRANCH BATTALIONS
ACTIVITIES OF ON-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ON-DUTY MAINTENANCE/REPAIR/SERVICING	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Maintenance/Repair	3	9	12	33	13	42	20	33
Installing/Removing Equipment	1	3	2	5	1	3	9	15
Tuning/Adjusting/Aligning	5	15	5	14	1	3	5	8
Inspecting	1	3	3	8	1	3	5	8
Cleaning	4	12	3	8	1	3	3	5
Assembling/Disassembling	1	3	0	0	0	0	2	3
Troubleshooting	0	0	0	0	1	3	1	2
Preparing Surfaces/Material	0	0	1	3	0	0	1	2
Woodworking	0	0	1	3	0	0	1	2
Repairing Tires	0	0	1	3	0	0	0	0
Welding/Brazing/Cutting	1	3	0	0	0	0	0	0
Painting	0	0	2	5	0	0	0	0
Unspecified Maintenance/Repair	4	12	2	5	0	0	0	0
Inspecting & Servicing Expendables								
Inspecting	0	0	1	3	0	0	0	0
Fuel/Feed	0	0	0	0	1	3	0	0
Batteries	4	12	0	0	1	3	1	2
Filters, Lubricants, etc.								
Replenishing	7	22	2	5	3	11	7	11
Changing/Inflating Tires	0	0	1	3	1	3	1	2
Fueling/Defueling	0	0	0	0	1	3	0	0
Filters, Lubricants, etc.								
Unspecified Maint/Repair/Servicing	2	6	2	5	6	20	4	7
Total	33	100	37	100	31	100	60	100

Data as of 7 Jan 87.

Within maintenance/repair/servicing activities, installing/removing equipment has increased 54% over FY 85.

FIELD ARTILLERY BRANCH BATTALIONS
ACTIVITIES OF ON-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ON-DUTY COMBAT SOLDIERING	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Tactical Parachuting	14	45	20	40	8	16	11	26
Camouflaging/Concealment	5	16	5	10	7	15	4	10
Infiltrating/Assaulting	3	10	9	18	4	8	3	7
Patrolling/Reconnoitering	1	3	2	4	4	8	2	5
Skiing/Snow Shoes	4	13	1	2	3	6	2	5
MOPP, NBC	0	0	0	0	0	0	1	2
Tactical Rappelling	0	0	1	2	2	4	0	0
Slide For Life/Rope Bridge	1	3	0	0	1	2	0	0
Unspecified Combat Soldiering	3	10	12	24	20	41	19	45
Total	31	100	50	100	49	100	42	100

Data as of 7 Jan 87.

Within combat soldiering activities, tactical parachuting continues to be the leading cause of injuries and shows a 38% increase over FY 85.

FIELD ARTILLERY BRANCH BATTALIONS
ACTIVITIES OF ON-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ON-DUTY SPORTS	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Basketball	4	21	4	24	7	28	14	33
Touch Football	5	27	5	29	4	16	9	21
Soccer	1	5	0	0	1	4	5	12
Softball	3	16	5	29	4	16	4	10
Tackle Football	0	0	1	6	6	24	3	7
Volleyball	3	16	0	0	1	4	2	5
Snow Skiing	1	5	1	6	1	4	2	5
Boxing	1	5	0	0	0	0	1	2
Rugby	1	5	0	0	0	0	0	0
Bowling	0	0	1	6	0	0	0	0
Frisbee	0	0	0	0	1	4	0	0
Unspecified Sports	0	0	0	0	0	0	2	5
Total	19	100	17	100	25	100	42	100

Within on-duty sports activities, basketball continues to be the largest contributor to injuries and shows a 100% increase over FY 85.

FIELD ARTILLERY BRANCH BATTALIONS
ACTIVITIES OF ON-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ON-DUTY HUMAN LOCOMOTION	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Walking	8	73	9	65	4	31	17	52
Climbing	2	18	2	14	5	38	3	9
Running	0	0	1	7	1	8	2	6
Jumping	1	9	1	7	1	8	2	6
Egressing/Ingressing	0	0	0	0	2	15	1	3
Unspecified Human Locomotion	0	0	1	7	0	0	8	24
Total	11	100	14	100	13	100	33	100

Data as of 7 Jan 87.

Within human locomotion activities, walking continues to be the largest contributor to injuries and shows a 325% increase over FY 85.

FIELD ARTILLERY BRANCH BATTALIONS
ACTIVITIES OF OFF-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ACTIVITY OF OFF-DUTY INJURED PERSON	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Sports	38	49	58	53	69	55	90	53
Human Locomotion	21	28	22	20	28	22	32	18
Maintenance/Repair/Serviceing	4	5	5	5	6	5	10	6
Personal Hygiene	3	4	7	6	1	1	7	5
Material Handling	3	4	2	2	5	4	5	4
Weapons Handling	1	1	1	1	2	2	4	3
Passenger	0	0	0	0	2	2	4	3
Janitorial	1	1	2	2	2	2	3	2
Food/Drink Preparation	1	1	4	4	0	0	3	2
Horseplay	3	4	3	3	5	4	3	2
Handling Vehicle/Vessel	0	0	0	0	0	0	2	1
Communications	0	0	0	0	0	0	1	<1
Bystanding/Spectating	0	0	2	2	0	0	1	<1
Soldiering	0	0	0	0	1	1	0	0
Engineering/Construction	0	0	0	0	1	1	0	0
Operating Vehicle/Vessel	0	0	1	1	0	0	0	0
Fabricating	1	1	0	0	0	0	0	0
Supervisory	1	1	0	0	0	0	0	0
Hobbies	1	1	1	1	1	1	0	0
Total	78	100	108	100	123	100	165	100

Data as of 7 Jan 87.

For off-duty injuries in personnel injury accidents, sports continues to be the largest contributor and shows a 30% increase in FY 86 compared to FY 85.

FIELD ARTILLERY BRANCH BATTALIONS
ACTIVITIES OF OFF-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

OFF-DUTY SPORTS	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Basketball	9	24	15	25	21	29	23	27
Softball	7	18	10	17	15	21	14	17
Tackle Football	2	4	7	12	7	9	8	9
Wrestling	1	3	0	0	0	0	6	7
Touch Football	4	10	12	20	3	4	4	4
Snow Skiing	2	4	0	0	0	0	4	4
Soccer	1	3	1	2	2	3	3	3
Frisbee	0	0	0	0	1	2	3	3
Baseball	1	3	1	2	0	0	2	2
Swimming	2	4	0	0	4	5	2	2
Hunting	0	0	0	0	0	0	2	2
Skating/Skate Boarding	1	3	0	0	2	3	2	2
Mountain/Rock Climbing	0	0	1	2	0	0	2	2
Jogging	0	0	1	2	0	0	2	2
Racquetball/Paddle Ball	1	3	0	0	1	2	1	1
Volleyball	0	0	0	0	0	0	1	1
Boxing	0	0	1	2	0	0	1	1
Rodeoing	0	0	0	0	1	2	1	1
Track & Field	0	0	0	0	0	0	1	1
Diving	1	3	0	0	2	3	1	1
Fishing From Boat	0	0	0	0	1	2	1	1
Hang Gliding	0	0	0	0	0	0	1	1
Equestrian	0	0	0	0	1	2	1	1
Gymnastics/Weightlifting	1	3	1	2	0	0	1	1
Fishing From Bank, Deck, Pier	1	3	0	0	0	0	1	1
Tennis	0	0	0	0	1	2	0	0
Rugby	0	0	2	3	0	0	0	0
Table Tennis	1	3	0	0	0	0	0	0
Water Skiing	0	0	0	0	2	3	0	0
Power Boating	0	0	1	2	0	0	0	0
Parachute Jumping	0	0	2	3	1	2	0	0
Bowling	0	0	1	2	0	0	0	0
Martial Arts	1	3	1	2	1	2	0	0
Canoeing/Rafting	1	3	0	0	0	0	0	0
Unspecified Sports	1	3	1	2	3	4	2	3
Total	38	100	58	100	69	100	90	100

Data as of 7 Jan 87.

Within off-duty sports activities, basketball continues to be the largest contributor to injuries.

FIELD ARTILLERY BRANCH BATTALIONS
ACTIVITIES OF OFF-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

OFF-DUTY HUMAN LOCOMOTION	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Walking	12	57	12	55	12	42	15	47
Jumping	0	0	3	13	1	4	4	13
Running	5	23	2	9	5	18	3	9
Egressing/Ingressing	1	5	2	9	1	4	1	3
Climbing/Mounting	2	10	2	9	4	14	0	0
Swimming	1	5	0	0	0	0	0	0
Unspecified Human Locomotion	0	0	1	5	5	18	9	28
Total	21	100	22	100	28	100	32	100

Data as of 7 Jan 87.

Within off-duty human locomotion activities, walking continues to be the largest contributor to injuries.

FIELD ARTILLERY BRANCH BATTALIONS
CLASS A-C GROUND ACCIDENTS (CURRENT CRITERIA)
PRIVATELY OWNED VEHICLE ACCIDENTS

PRIMARY VEHICLE*	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Auto/Sedan	57	55	61	49	68	48	70	47
Motorcycle/Moped	23	22	39	32	54	38	38	26
Truck	5	5	4	3	2	2	5	4
Bicycle	3	3	3	2	4	3	3	2
Trailer	0	0	1	1	0	0	1	1
Bus	1	<1	0	0	0	0	0	0
Van	2	2	0	0	0	0	0	0
Trains	1	<1	0	0	3	2	0	0
Other POV	0	0	1	1	5	4	4	3
Unreported	12	12	15	12	4	3	25	17
Total	104	100	124	100	140	100	146	100

*In multiple vehicle accidents, the primary vehicle is the one most at fault, e.g., through driver error or materiel failure.

Data as of 7 Jan 87.

Accidents involving the auto/sedan continues to be the leading contributor to injuries. Motorcycles/mopeds accidents account for the second largest part of the increase.

The trend in Field Artillery Battalion privately owned vehicle accidents is increasing.

FIELD ARTILLERY BRANCH BATTALIONS
CLASS A-C GROUND ACCIDENTS (CURRENT CRITERIA)
ARMY MOTOR VEHICLE ACCIDENTS

PRIMARY VEHICLE*	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
<u>Tactical</u>								
8 & 10-Ton Trucks	4	5	7	6	13	11	23	18
2 1/2-Ton Trucks	13	18	15	13	21	18	21	16
5-Ton Trucks	16	22	30	26	24	20	19	15
1/4-Ton Trucks	14	19	17	15	26	22	18	14
Gamma Goat	15	20	13	12	10	8	10	8
CUCV	0	0	2	2	3	3	7	6
Tactical Trailers	1	1	2	2	3	3	6	5
HMMWV	0	0	0	0	1	1	4	3
M880/890	3	4	9	8	5	4	3	2
Other Tactical Vehicles	2	3	3	3	10	8	10	8
<u>Commercial</u>								
Van	0	0	4	4	1	1	3	2
Bus	0	0	2	2	0	0	1	1
Truck Tractor	0	0	1	1	0	0	1	1
1/4 - 3/4-Ton Trucks	0	0	3	3	0	0	0	0
Over 2-Ton Trucks	5	7	2	2	1	1	0	0
Other Commercial Trucks	1	1	1	1	0	0	1	1
Total	74	100	111	100	118	100	128	100

*In multiple vehicle accidents, the primary vehicle is the one most at fault, e.g., through driver error or materiel failure.

Data as of 7 Jan 87.

An upward trend in Army motor vehicle accidents within Field Artillery Battalions occurred during the four fiscal year period. Increases in accidents involving the 5-ton trucks in FY 84 and the 1/4-ton trucks in FY 85 coupled with a continuing increase in 8 & 10-ton truck accidents are the major contributors to this increasing trend.

FIELD ARTILLERY BRANCH BATTALIONS
CLASS A-C GROUND ACCIDENTS (CURRENT CRITERIA)
ARMY COMBAT VEHICLE ACCIDENTS

PRIMARY VEHICLE*	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
SP Guns & Howitzers	9	29	16	38	25	50	27	47
Other Carrier	17	55	16	38	16	32	24	40
M113 Carrier	3	10	8	20	5	10	6	11
M1 Tank	0	0	1	2	0	0	0	0
Other Tank	1	3	0	0	0	0	0	0
VTR	1	3	1	2	1	2	0	0
Other Track Vehicles	0	0	0	0	3	6	1	2
Total	31	100	42	100	50	100	58	100

*In multiple vehicle accidents, the primary vehicle is the one most at fault, e.g., through driver error or materiel failure.

Data as of 7 Jan 87.

During the four fiscal year period, combat vehicle accidents within Field Artillery Battalions showed an increasing trend. This is primarily a result of increases in accidents involving self-propelled guns and Howitzers.

FIELD ARTILLERY BRANCH BATTALIONS
CLASS A-C AVIATION ACCIDENTS (CURRENT CRITERIA)

TYPE AIRCRAFT	FY 83	FY 84	FY 85	FY 86
<u>Rotary Wing</u>				
CH-47	1	0	0	0
<u>Fixed Wing</u>	0	0	0	0
Total	1	0	0	0

Data as of 7 Jan 87.

Field Artillery Branch Battalion UIC

WA1VAA	1/36	FA
WA2DAA	2/2	FA
WA2FAA	2/17	FA
WH1SAA	3/9	FA
WA2HAA	2/11	FA
WASNAA	1/37	FA
WA2JAA	2/16	FA
WABKAA	1/320	FA
WA2LAA	1/30	FA
WH14AA	2/42	FA
WA2MAA	2/31	FA
WARXAA	2/10	FA
WA2NAA	1/92	FA
WAQZAA	1/35	FA
WA2RAA	2/34	FA
WG1DAA	4/27	FA
WA2SAA	2/35	FA
WACDAA	1/321	FA
WA2TAA	2/37	FA
WAQBAA	1/13	FA
WA2UAA	3/21	FA
WH26AA	3/29	FA
WA2WAA	1/32	FA
WAC3AA	1/6	FA
WA2ZAA	3/79	FA
WAN3AA	1/29	FA
WA2OAA	1/18	FA
W2NTO2	ABTYS	FA
WE7OAA	6/8	FA
WFBKAA	3/82	FA
WE7ZAA	1/39	FA
WAM5AA	2/39	FA
WE7YAA	8/8	FA
WE9ZAA	1/76	FA
WH29AA	2/29	FA

WAM0AA	1/10	FA
WH3AAA	6/29	FA
WA1MAA	7/15	FA
WAEQAA	2/3	FA
WA1QAA	2/18	FA
WAESAA	2/6	FA
WA1SAA	6/27	FA
WAEVAA	2/27	FA
WAMYAA	1/9	FA
WAFSAA	1/22	FA
WA1YAA	1/75	FA
WD3EAA	1/27	FA
WA12AA	2/83	FA
WAF6AA	2/78	FA
WA14AA	2/5	FA
WAF7AA	1/94	FA
WA18AA	6/14	FA
WAG4AA	1/21	FA
WA2BAA	3/3	FA
WAG6AA	1/77	FA
WAKJAA	1/20	FA
WALWAA	2/21	FA
WAWWAA	3/5	FA
WAHNA	1/5	FA
WHNTAA	4/9	FA
WAHQAA	1/7	FA
WABQAA	2/377	FA
WDPLAA	1/80	FA
WGLMAA	1/82	FA
WDJ2AA	5/15	FA
WH27AA	5/29	FA
WALRAA	2/9	FA
WAC9AA	3/19	FA
WDGPAA	1/84	FA
WAM6AA	2/41	FA
WDGNAA	3/34	FA
WE8RAA	6/33	FA

WDGMAA	2/4	FA
WA1NAA	1/17	FA
WDGLAA	1/11	FA
WA1UAA	3/35	FA
WAJLAA	1/12	FA
WA1ZAA	2/75	FA
WC17AA	5/11	FA
WA16AA	6/10	FA
WAJMAA	1/15	FA
WA2CAA	3/6	FA
WCZVAA	1/333	FA
WABLAA	3/319	FA
WALQAA	1/8	FA
WACCAA	2/320	FA
WAJRAA	6/37	FA
WFJ8AA	4/77	FA
WASYAA	E/320	FA
WADWAA	1/3	FA
WH9UAA	4/5	FA
WA1RAA	3/18	FA
WH9VAA	5/8	FA
WA13AA	2/92	FA
WH9WAA	4/3	FA
WABJAA	1/319	FA
WH9XAA	5/3	FA
WH2QAA	4/4	FA
WH9YAA	5/41	FA
WA1LAA	7/8	FA
WH9OAA	3/8	FA
WA19AA	2/28	FA
WAK5AA	2/8	FA
WH28AA	4/29	FA
WARMAA	3/319	FA
WA1XAA	3/37	FA
WJAAAA	3/7	FA